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AMENDMENTS TO THE CLAIMS

For the Examiner's convenience, all pending claims are set forth below and have been amended where noted:

- 1) (Currently Amended) A catalyst regenerator for regenerating spent light FCC catalyst and heating the catalyst to supply heat to an FCC reactor, comprising:

a regenerator vessel housing a dense phase catalyst bed;

a central upright standpipe portion for receiving the spent catalyst to be regenerated;

a centerwell receiving a lower end of the standpipe portion and defining an annulus between the standpipe portion and an inside diameter of the centerwell;

a valve for introducing spent catalyst through the standpipe portion into the annulus;

a fuel distributor for introducing fuel into the centerwell for mixing with the catalyst in the annulus, wherein the fuel distributor is connected to a source of fuel oil;

a fluidization distributor for introducing fluidization gas into the centerwell for fluidizing the catalyst in the annulus, wherein the fluidization distributor is connected to a source of a fluidization gas;

a radial slot formed in the centerwell below an upper surface of the dense phase bed for introducing the catalyst and fuel mixture from the annulus into the dense phase bed below an the upper surface;

an air distributor disposed in the dense phase bed subjacent to the radial slot for introducing combustion air into the dense phase bed;

a catalyst discharge outlet in fluid communication with the dense phase bed; and

an off gas discharge outlet in fluid communication with a dilute phase above the dense phase bed.

- 2) (Original) The regenerator of claim 1 wherein the air distributor is an air distribution ring disposed in the dense phase bed about the centerwell subadjacent to the radial slot.
- 3) (Original) The regenerator of claim 1 wherein the fuel distributor is at least one nozzle.
- 4) (Cancelled)
- 5) (Cancelled)
- 6) (Currently Amended) The regenerator of claim ~~[[5]]~~ 1 wherein the fluidization gas is steam.
- 7) (Original) The regenerator of claim 1 further comprising a steam source for supplying steam to the fuel distributor.
- 8) (Original) The regenerator of claim 1 wherein the valve is located at a lower end of the standpipe portion.
- 9) (Original) The regenerator of claim 8 wherein the standpipe portion is a lower end of a central vertical standpipe located within the regenerator.
- 10) (Original) The regenerator of claim 1, wherein the regenerator has an angled spent catalyst supply line extending into the regenerator and the valve is located in the angled spent catalyst line prior to entering the regenerator and the standpipe portion extends from the angled spent catalyst supply line within the regenerator.
- 11) (Original) The regenerator of claim 10 wherein the standpipe portion is attached to the end of angled spent catalyst line.
- 12) (Cancelled)
- 13) (Cancelled)
- 14) (Previously Presented) The regenerator of claim 1 wherein the radial slot is defined by an upper end of a wall of the centerwell spaced from an annular plate disposed about the standpipe portion above the annulus to direct the mixture of fluidized spent catalyst and fuel radially outwardly from the centerwell into the dense phase bed.

Applicant believes that no new matter has been added with these amendments.